

## IN THE CLAIMS

Amend Claims 1, 3-5, 7-15 and 17 as follows and add Claims 19 and 20:

1. (Currently amended) A method of producing one or more gases, comprising the steps of electrolytically treating in which a liquid (9) is ~~electrolytically treated,~~  
and

~~characterized in that~~

adhering to a substance (10) is present in the liquid (9), ~~to which the~~ or one  
or more of the gases ~~to be~~ being produced ~~adheres~~.

2. (Original) A method in accordance with claim 1, wherein the gas to be produced is hydrogen.

3. (Currently amended) A method in accordance with claim ~~either of claims 1 or 2,~~ wherein the gases to be produced are hydrogen and oxygen.

4. (Currently amended) A method in accordance with claim 1 ~~any one of the preceding claims,~~ wherein the liquid (9) ~~containing the or a gas to be produced is~~ water.

5. (Currently amended) A method in accordance with claim 1 ~~any one of the preceding claims,~~ wherein the substance (10) to which the ~~or a gas to be produced~~ adheres is an ion exchanger.

6. (Original) A method in accordance with claim 5, wherein the ion exchanger (10) is an acid ion exchanger.
7. (Currently amended) A method in accordance with claim 5 ~~any one of the preceding claims~~, wherein the ~~substance to which the or a gas to be produced adheres or~~ the ion exchanger (10) is of gel-like form.
8. (Currently amended) A method in accordance with claim ~~any one of the claims 5 to 7~~, wherein the ion exchanger (10) comprises a matrix, active groups and ions to be exchanged.
9. (Currently amended) A method in accordance with claim 5 ~~any one of the preceding claims~~, wherein the ~~substance to which the or a gas to be produced adheres or~~ the ion exchanger (10) contains catalytically acting substances.
10. (Currently amended) A method in accordance with claim 5 ~~any one of the preceding claims~~, wherein the ~~substance to which the or a gas to be produced adheres or~~ the ion exchanger (10) contains catalytically acting and/or gas delivering enzymes.
11. (Currently amended) A method in accordance with claim 5 ~~any one of the preceding claims~~, wherein the ~~substance to which the or a gas to be produced adheres or~~ ion exchanger (10) is kept in motion.
12. (Currently amended) A method in accordance with claim 5 ~~any one of the preceding claims~~, wherein the ~~substance to which the or a gas to be produced adheres or~~ ion exchanger (10) is kept in suspension in the liquid (9).

13. (Currently amended) A method in accordance with claim 5 ~~any one of the preceding claims~~, wherein the ~~substance to which the~~ or a gas to be produced adheres or ion exchanger (10) is supplied continuously.

14. (Currently amended) A method in accordance with claim 1 ~~any one of the preceding claims~~, wherein the ~~method is~~ carried out in multiple stages.

15. (Currently amended) An apparatus for the carrying out of the method in accordance with claim ~~any one of the claims 1 to 14~~,

characterized by comprising

a container (1) comprising a liquid (9) in which a substance (10) is present to which ~~the or one~~ or more of the gases to be produced adheres; and

a positive electrode (6) and a negative electrode (7) structured and arranged ~~to which can be or are~~ connected to a power source (13).

16. (Original) An apparatus in accordance with claim 15, wherein an electrode (7) is tubular in design.

17. (Currently amended) An apparatus in accordance with claim ~~either of claims 15 or 16~~, wherein a filler material is present, in particular inside the tubular electrode (7), in the liquid (9) containing the ~~or a~~ gas to be produced and a substance (10) to which the ~~or a~~ gas to be produced adheres.

18. (Original) An apparatus in accordance with claim 17, wherein an acid is present in the filler material.

19. (New) An apparatus in accordance with 16, wherein a filler material is present, in particular inside the tubular electrode (7), in the liquid (9) containing the gas to be produced and a substance (10) to which the gas to be produced adheres.

20. (New) An apparatus in accordance with claim 19, wherein an acid is present in the filler material.